

CLAIMS

1. A vehicle door outer handle system comprising: an operating handle (14) comprising a handle main body (22) made of a synthetic resin and a cover (23) made of a synthetic resin so as to cover the outer side of the handle main body (22), the operating handle (14) being disposed on an outer side of a vehicle door (11); a pair of electrodes (43); and a circuit board (44) on which is provided a detection circuit (45) for detecting a change in capacitance between the electrodes (43), the electrodes (43) and the circuit board (44) being housed within the operating handle (14); characterized in that the electrodes (43) are patterned on the circuit board (44).
2. The vehicle door outer handle system according to Claim 1 wherein, among opposite faces of the circuit board (44), a component (45a, 45b, 45c) of the detection circuit (45) is mounted on the face on the side opposite to the face where the electrodes (43) are patterned.
3. The vehicle door outer handle system according to either Claim 1 or 2, wherein, among opposite faces of the circuit board (44), the electrodes (43) are patterned on the face on the vehicle side.
4. The vehicle door outer handle system according to Claim 1, wherein a sensor unit (42) comprising the electrodes (43), the circuit board (44), and a covering portion (48) made of a synthetic resin and covering the electrodes (43) and the circuit board (44) is fixedly housed in a housing recess (41) formed in the handle main body (22) so as to open on the cover (23) side.
5. The vehicle door outer handle system according to Claim 4, wherein the electrodes (43) and the circuit board (44) are mounted on a holder (46), a majority of the holder (46) being covered by the covering portion (48) so as to form a part of the sensor unit (42).

6. The vehicle door outer handle system according to Claim 5, wherein a ground plate (47) forming a part of the sensor unit (42) is mounted on the holder (46) so as to cover the electrodes (43) and is covered by the covering portion (48).

7. The vehicle door outer handle system according to either Claim 4 or 5,
5 wherein a portion of the holder (46) projecting from the covering portion (48) is mounted on a mounting seat (63, 64) provided on the handle main body (22).